



Innovation Empowers Sample Preparation,
Intelligence Achieves Simplicity



AM360 Turbo Mill



蚂蚁源科学仪器（北京）有限公司
ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO., LTD.

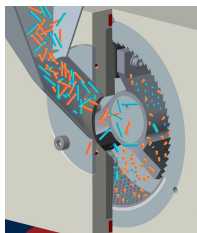


AM360 Turbo Mill

Turbo mill is suitable for batch or continuous coarse and fine grinding of soft, medium and hard materials, organic and inorganic samples. It can be used for both the preparation of laboratory samples and the preparation of larger samples in the pilot workshop. AM360 Turbo Mill, with large grinding energy and short time, can avoid rapid heating of materials and achieve excellent grinding effect. The 360-degree full-angle ring screen improves the grinding efficiency and increases the controllability of the grinding results. Adjustable speed range from 2000-10000rpm, adapt to different application needs.



Working Principle



After the sample enters the grinding chamber from the feed hopper, the sample is crushed to smaller particles by the shearing, impact and knocking action between the rotor and the dentate cutting bars and the bottom sieves. Until the sample particle size is smaller than the sieve aperture, into the collection container. The Turbo Mill allows for rapid pulverization of medium-hard, soft, and brittle samples.

Performance Advantages

- ◎ Sample feed size up to 25mm. Sample size is determined by the sieve, up to 50 μm .
- ◎ Suitable for continuous or batch processing of large numbers of samples.
- ◎ Speed 2000-10000rpm adjustable.
- ◎ 180° comminuted panel combined sieve and 360° ring sieve are optional, suitable for different sample preparation.
- ◎ Removable grinding sets, easy to clean.
- ◎ Available with Vibratory Feeder, high degree of automation.
- ◎ Can be connected to the cyclone separator, Improve air flow, cooling samples and grinding tools, improve sample preparation efficiency.
- ◎ Collection device can be connected to a ring filter, more convenient to clean the dust.
- ◎ Motor quick brake and safety lock device.
- ◎ Host and stand can be separated for easy transportation.
- ◎ Easy to move with casters.

Technical Information

Technical parameter	AM360 Turbo Mill
Feed material	soft, medium-hard, brittle
Material feed size	≤25mm (Depends on the nature of the sample and the grinding environment)
Final fineness	approx. 50μm (Depends on the nature of the sample and the grinding environment)
Setting of grinding time	1s ~ 7h59min59s, continuously adjustable
Rotary speed	2000 ~ 10000rpm
Rotor peripheral speed	14.4 ~ 72m/s
Grinding way	dry
Container volume	3L or 5L, 1 ~ 30L available
Material of sieves	stainless steel, titanium
Sieve type	combined 180° crushed insert sieve and 360° ring sieve
Material of grinding tools	hardened steel, stainless steel
Type of feed hopper	standard feeder hoppers, vibratory feeder
Type of collection container	cyclone separator, ring filter
Cyclone separator material	glass, stainless steel
Cyclone Separator Volume	glass can be 250ml or 500ml; stainless steel can be 1L, 3L, 5L, other volumes need to be customized.
W × H × D	550mm × 1200mm × 700mm
Net weight	Approx. 60Kg
Electrical supply data	AC220V, 50Hz/60Hz, 2200W



Application



Agriculture



Medicine



Ceramics



Coke



Glass



Engineering
materials



Soil



Mineral
metallurgy



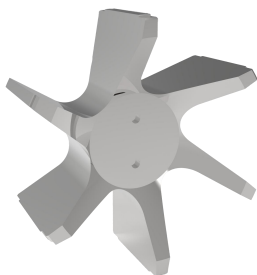
Food



Coals

Optional Guide

The turbo mill consists of a wide range of grinding kits with different types and materials of rotor, dentate cutting bars and bottom sieves with different apertures. Common grinding kit materials include: stainless steel, hardened steel, etc., and sieve materials include stainless steel, titanium, etc..



Turbo standard rotor



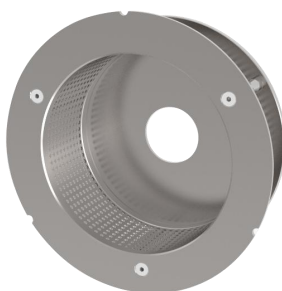
Turbo pitch rotor



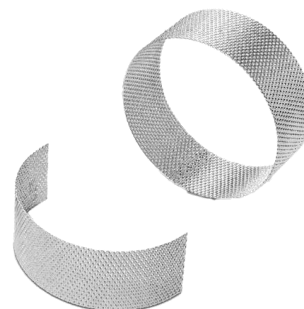
Turbo rotor baffle



180° Dentate Crushing Edge



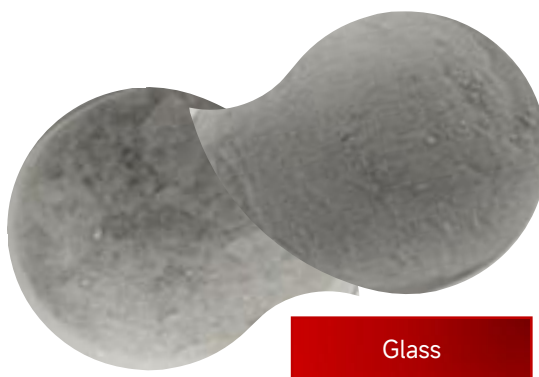
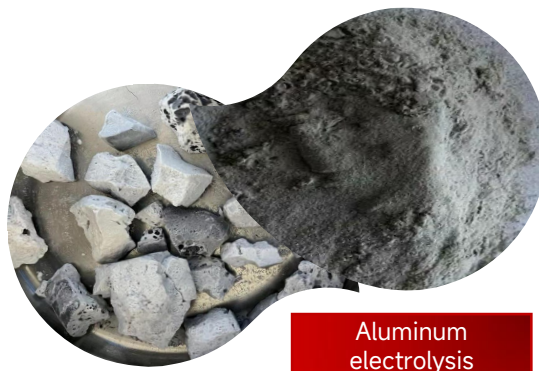
360° Ring Sieve



Bottom sieves
Ring sieves



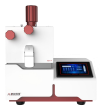
Application Examples



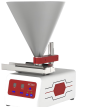


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Milling Series

 AM100S Vibratory Ball Mill	 AM200S Mortar Grinder	 AM300 Cutting Mill	 AM300S Cutting Mill	 AM350 Beater Mill	 AM360 Turbo Mill	 AM400S Planetary Ball Mill
 AM410 Planetary Ball Mill	 AM420 Planetary Ball Mill	 AM500S High Speed Rotary Mill	 AM600S Knife Mill	 AM700 Jaw Crusher	 AM710 Extrusion Crusher	 AM750S Bench Jaw Crusher
 AM800 Disc Mill	 AM800CC Disc Mill	 AM810 Disc Mill	 AM900 Vibratory Disc Mill	 AM950 Vibratory Disc Mill		

Assisting Series

 AF100S 3D Vibratory Sieve Shaker	 AF150 Horizontal Sieve Shaker	 AF200S Sample Automatic Divider	 AF300 Vibratory Feeder
 AF400 Rotating Tube Divider	 AF450 Rotating Sample Divider	 AF500 3D Sample Mixer	 AF510 3D Sample Mixer

Intelligent Series

 AISP1678 / AISP1700 Intelligence Soil Preparation System	
 ADVM1001 / ADVM1001CS Vacuum Microwave Drying Series	

蚂蚁源科学仪器（北京）有限公司

ANTS SCIENTIFIC INSTRUMENTS (BEIJING) CO.,LTD.

地址：北京市经济开发区经海二路29号院1号楼1单元4层

Add: Room 401, Floor 4, Unit 1, Building 1, No. 29, Jinghai 2nd Road, Kechuang
5th Street, Beijing Economic-Technological Development Area

德州生产基地：山东省德州市德城区袁桥镇中元科技创新创业园1#厂房

电话 (Tel) : 010-57791811

传真 (Fax) : 010-67656036

邮箱 (E-mail) : ex-trade1@my-ant.com; ex-trade2@my-ant.com

网址 (Web) : www.my-ant.com



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